

SECTION 5: 510(k) SUMMARY

Submitted by:

Baxa Corporation

MAR 0 9 2007

Contact Person:

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Date Prepared:

Manufacturing Facility:

Baxa Corporation

14445 Grasslands Drive Englewood, CO 80112

Submitted Device:

Trade Name: Repeater Pump II Tube Sets

(Baxa Tubing Sets for Pump)

Common Name: Set, IV Fluid Transfer

Device Classification:

21 CFR § 880.5440 Intravascular administration set,

Product Code LHI

(a) Identification. An intravascular administration set is a device used to administer fluids from a container to a patient's vascular system through a needle or catheter inserted into a vein. The device may include the needle or catheter, tubing, a flow regulator, a drip chamber, an infusion line filter, an I.V. set stopcock, fluid delivery tubing, connectors between parts of the set, a side tube with a cap to serve as an injection site, and a hollow spike to penetrate and connect the tubing to an I.V. bag or other infusion fluid container.

(b) Classification. Class II

Predicate Device:

Trade Name: Repeater™ Pump Tube Sets

(Baxa Tubing Sets for Pump)

Common Name: Set, IV Fluid Transfer

Predicate Device Classification:

21 CFR § 880.5440 Intravascular administration set

Product Code LHI

(b) Classification. Class II

Manufacturer: Baxa Corporation 510(k) Number: K872743

Product Description:

The Repeater Pump II tube set provides the fluid pathway, pump cavity, valving, and tube set for the Repeater Pump II system. The tube set and pump platform work together to provide sterile transfer and reconstitution of pharmaceutical liquids. The tube set utilizes a plastic piston to mechanically pump required amounts of fluid from 0.2mL to 10mL with each piston stroke. A plastic pump core works in conjunction with the piston to provide appropriate fluid pathways for the draw and discharge strokes.

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There are two tube set connections for inlet and outlet fluid pathways. The Repeater Pump II tube set will be available in eight (8) unique configurations to accommodate various source and final container connections.

The Repeater Pump II tube set:

- Provides an integrated pump body/cavity, piston, pump core, and tube set that are used with standard pharmaceutical fluid and drug administration containers
- Utilizes standard connections in different configurations to meet different pumping requirements
- Eliminates the need for frequent calibration and flow factor adjustments normally required with peristaltic pumping
- Designed for pumping life of 200L. Pump automatically alerts users when end of tube set life is met

Intended Use:

The Repeater Pump II tube set is for use with Repeater Pump II device. This device provides piston pump driven fluid transfer that facilitates repeatable drug dosage distribution and reconstitution in hospital pharmacies. The Repeater Pump II tube set provides the fluid pathway and pumping mechanism for the pump system. The device is for use with IV bags, syringes, elastomeric infusers, and other drug administration containers. Some sets are sold sterile and others are not based on the requirements for the end use of the set.

Statement of substantial equivalence:

A summary of the essential features between the Repeater Pump Tube sets (Predicate Device) and the Baxa Corporation Repeater Pump II Tube sets (New Device) is contained in below:

Feature	Repeater Pump II Tube Set (Piston Pump New Device)	Repeater Pump Fluid Transfer Tube Set (Peristaltic Pump Predicate Device)
Indication for Use	The Repeater Pump II tube sets are fluid transfer tube sets used in conjunction with the Repeater Pump II pharmacy pump in hospital pharmacies to provide a pathway through which fluid is transferred from one source container into another suitable container.	The Repeater Pump tube set is part of the Repeater Pump™ device. This device provides peristaltic pump driven fluid transfer that facilitates repeatable drug dosage distribution and reconstitution in hospital pharmacies. The Repeater Pump tube set provides the fluid pathway and pumping mechanism for the pump system. The device is for use with IV bags, syringes, elastomeric infusers, and other drug administration containers. Some sets are sold sterile and others are not based on the end use of the set.
Intended	This product would be used for fluid transfer in	This product would be used for fluid transfer
Use	hospital pharmacies	in hospital pharmacies
Capacity	10mL per stroke with min/max delivery of .2mL/10mL per stroke and a maximum flow	Inner diameter of pump tube set allows over 14 mL per second to be pumped at the

	rate of over 21mL per second.	highest speed.
Tubing	Various Durometer Non-DEHP PVC tubing	Various durometer PVC and silicone tubing
Connections	Model #3601	Model #11
	Vented Spike/Male Luer Lock Connectors	Vented Spike/Male Luer Lock Connectors
	Fluid Transfer with Vented Spike	Fluid Transfer with Vented Spike
	Model #3603	 Model #21
	Male Luer Lock/Male Luer Lock Connectors	Male Luer Lock/Male Luer Lock Connectors
	Fluid Transfer with Luer Lock Connectors	Fluid Transfer with Luer Lock Connectors
	Model #3605	Model #331
	Male Luer Lock/Male Luer Lock Connectors	Male Luer Lock/Male Luer Lock Connectors
	Low Prime Volume Fluid Transfer	Low Prime Volume Fluid Transfer
	Model #3612	Model #62
	Vented Spikes (2)/Male Luer Lock	Vented Spikes (2)/Male Luer Lock
	Bifurcated Tube Set	Bifurcated Tube Set
	Model #3614	Model #63
	Vented Spike (3)/Male Luer Lock	Vented Spike (3)/Male Luer Lock
	Trifurcated Tube Set	Trifurcated Tube Set
	Model #3623	Model #13
	SS Weight Inlet/Male Luer Lock	SS Weight Inlet/Male Luer Lock
	Oral Liquid Transfer	Oral Liquid Transfer
	Model #3620	Model #26
	Male Luer Lock Connector	Male Luer Lock Connector
	Top Fill Bag	Top Fill Bag
	Gel Bag	Gel Bag
	Model #3625	Model #46
	Male Luer Lock Connector	Male Luer Lock Connector
	Top Fill Bag	Top Fill Bag
T	Gel Bag	Gel Bag
Target Population	Customers for the tube sets are Baxa	Customers for the tube sets are Baxa
Population	pharmacy pump users, including hospital and home care pharmacists and pharmacy	pharmacy pump users, including hospital
	technicians. These tube sets are used by	and home care pharmacists and pharmacy technicians. These tube sets are used by
	trained personnel, and do not have direct	trained personnel, and do not have direct
	contact with a patient.	contact with a patient.
Anatomical	N/A	N/A
sites Where Used	This product would be used by Pharmacists	This product would be used by Pharmacists
	and Pharmacy technicians both inside and	and Pharmacy technicians both inside and
	outside of flow hoods	outside of flow hoods
Performance	Using a rigid pumping cavity and piston number of different	 Using different durometer PVC tubing,
	pump methodology, solutions of different	solutions of different viscosities can be
	viscosities and flow rates can be pumped without any recalibration due to tube set	pumped while minimizing dripping from the end of the tube set. Using different
	characteristic changes.	silicone tubing diameters, differing
	,	volumes can be pumped with repeatable
		accuracy.
	Sterilized by Gamma Radiation	
	Minimum dispensing volume of 0.2mL.	 Sterilized by ETO (ethylene oxide) gas.
	■ Volume accuracy:	 Minimum dispensing volume of 0.2 mL.

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Materials	+/- 0.02ml for .2ml to 2ml pumping +/- 1% for >2ml pumping • High flow tube set allows over 21ml per second to be pumped at highest speed • The pump tube set will perform to specification for up to 200 liters of fluid. Pump automatically alerts users when end of tube set life is met See Section 11, "Device Description" for material information	 Volume accuracy: +/- 10% @ 0.2 mL +/- 5% @ 0.5 mL +/- 3% @ 1.0 mL Inner diameter of pump tube set allows over 14 mL per second to be pumped, highest speed. The pump tube set will perform to specification for up to 150 Liters of fluid. Fluid contact materials: Sunlite Plastics Vysun 102-85-22 Medical Grade PVC resin Medical Grade silicone tubing
Biocompatibi lity	Materials will be tested per ISO 10993-1 (2003): Biological Evaluation of Medical Devices Part 1: Evaluation and Testing	Materials have been tested per ISO 10993- 1 (2003): Biological Evaluation of Medical Devices Part 1: Evaluation and Testing
Compatibility with the environment and other devices	#3601, #3603, #3605, #3620, #3623 connections are compatible with standard luerlock connections per ISO 594-1 and -2. #3612, #3614 use a 5mm large bore	#11 connections are compatible with standard luer-lock connections per ISO 594-1 and -2.
Sterility	connector and are compatible only with other 5mm connectors Sterilized using Gamma radiation	Sterilized using Ethylene Oxide (ETO)

From the above table it can be seen that the two types of devices share the same basic features for fluid transfer applications.

Testing:

Testing will include:

Biocompatibility testing – ISO 10993-1

Sterilization validation -- ANSI/AAMI/ISO11137

Endotoxin Test - Endotoxin Test for Human and Animal Parenteral Drugs, Biological Products and Medical Devices. U.S. Dept. of Health and Human Services and Drug Administration, December 1987.

Human Factors/System Validation Disposable Design Verification Microbial Ingress Validation System Design Verification Packaging validation





Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

Ms. Kimberly Zizik
Regulatory Assurance Supervisor
Baxa Corporation
14445 Grasslands Drive
Englewood, Colorado 80112

MAR 0 9 2007

Re: K062909

Trade/Device Name: Repeater Pump IITM Tube Sets

Regulation Number: 880.5440

Regulation Name: Intravascular Administration Set

Regulatory Class: II Product Code: FPA Dated: February 16, 2007 Received: February 20, 2007

Dear Ms. Zizik:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (240) 276-0115. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address http://www.fda.gov/cdrh/industry/support/index.html.

Sincerely yours,

Čhiu Lin, Ph.D.

Director

Division of Anesthesiology, General Hospital, Infection Control and Dental Devices

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Office of Device Evaluation

Center for Devices and Radiological Health

Enclosure

KU2909

Indications For Use

510(k) Number: K062909

Device Name: Repeater Pump II™ Tube Sets

Indications for Use: The Repeater Pump II tube set tube sets are fluid transfer tube sets used in conjunction with the Repeater Pump II pharmacy pump in hospital and compounding pharmacies to provide a pathway through which fluid is transferred from one source container into another suitable container.

Prescription Use X (Part 21 CFR 801 Subpart D)

AND/OR

Over-The-Counter Use _____(21 CFR 807 Subpart C)

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

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